<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 108</td>
<td>Introduction to Web Computing</td>
<td>3</td>
<td>offered: every spring.</td>
<td>Fulfills College Core: Ethics, Field 7 (Mathematical Sciences)</td>
</tr>
<tr>
<td>CSC 108L</td>
<td>Introduction to Web Computing Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 108.</td>
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<tr>
<td>CSC 111</td>
<td>Introduction to Programming</td>
<td>3</td>
<td>offered: every fall, spring, &amp; summer.</td>
<td>Fulfills College Core: Field 7 (Mathematical Sciences)</td>
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<td>CSC 111L</td>
<td>Introduction to Programming Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 111.</td>
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<tr>
<td>CSC 112</td>
<td>Data Structures</td>
<td>3</td>
<td>offered: lab for CSC 112.</td>
<td>Fulfills College Core: CSC 111.</td>
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<tr>
<td>CSC 112L</td>
<td>Data Structures Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 112.</td>
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<tr>
<td>CSC 213</td>
<td>Large Scale Programming</td>
<td>3</td>
<td>offered: once a year.</td>
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<tr>
<td>CSC 213L</td>
<td>Large Scale Programming Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 213.</td>
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<tr>
<td>CSC 253</td>
<td>Computer Hardware</td>
<td>3</td>
<td>offered: once a year.</td>
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<tr>
<td>CSC 253L</td>
<td>Computer Hardware Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 253.</td>
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<tr>
<td>CSC 251</td>
<td>Automata and Algorithms</td>
<td>3</td>
<td>offered: every spring.</td>
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<tr>
<td>CSC 251L</td>
<td>Automata and Algorithms Lab</td>
<td>1</td>
<td>offered: lab for CSC 251.</td>
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<tr>
<td>CSC 310</td>
<td>Information Organization and Processing</td>
<td>3</td>
<td>offered: once a year.</td>
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<tr>
<td>CSC 310L</td>
<td>Information Organization and Processing Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 310.</td>
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<tr>
<td>CSC 320</td>
<td>The Social Impact of Computing</td>
<td>3</td>
<td>offered: occasionally.</td>
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<tr>
<td>CSC 330</td>
<td>Operating System Design and Distributed Computing</td>
<td>3</td>
<td>offered: every fall.</td>
<td>Fulfills College Core: Advanced Writing-Intensive</td>
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<tr>
<td>CSC 330L</td>
<td>Operating System Design and Distributed Computing Laboratory</td>
<td>1</td>
<td>offered: lab for CSC 330.</td>
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</tbody>
</table>
CSC 351L Comparative Programming Languages Laboratory 1 Credit
Required lab for CSC 351.
Prerequisite: minimum grade of C in CSC 112 and 112L or minimum grade of C in CSC 213 & CSC 213L. Corequisite: CSC 351.
Offered: spring of odd-numbered years.

CSC 360L Intelligent Systems 3 Credits
An introduction to intelligent systems including logic and rule-based systems, machine learning, and applications of AI.
Prerequisite: completion of MAT 191 or MAT 230 and minimum grade of C in either CSC 112 & CSC 112L or CSC 213 & CSC 213L. Corequisite: CSC 360L.

CSC 360L Intelligent Systems Laboratory 1 Credit
Required lab for CSC 360.
Prerequisite: completion of MAT 191 or MAT 230 and minimum grade of C in either CSC 112 and 112L or in CSC 213 & CSC 213L. Corequisite: CSC 360.
Offered: occasionally.

CSC 371L Cybersecurity Principles Lab 1 Credit
Required lab for CSC 371.
Prerequisite: CSC 310 and CSC 310L; may be taken concurrently.
Corequisite: CSC 371L.
Offered: every fall.

CSC 371 Cybersecurity Principles 3 Credits
This course examines the landscape and the broad areas of cybersecurity which includes topics such as: Symmetric & Public-Key Encryption, Access Control, Database Security, Malware, DoS (Denial-of-Service) Attacks, Intrusion Detection & Firewalls, Software Security, Security Management & Policies, Internet Security, and Legal & Ethical Aspects of Cybercrime. Students will also complete hands-on labs and exercises to reinforce their working knowledge of computer, network and information security topics.
Prerequisite: CSC 310 and CSC 310L; may be taken concurrently.
Corequisite: CSC 371L.
Offered: every fall.

CSC 380L Web Development 1 Credit
Web design principles, programming and scripting (both client-side and server-side), client/server mechanisms, search engines, and security.
Prerequisite: minimum grade of C in CSC 111 & CSC 111L. Corequisite: CSC 380L.

CSC 380 Web Development 3 Credits
Web design principles, programming and scripting (both client-side and server-side), client/server mechanisms, search engines, and security.
Prerequisite: minimum grade of C in CSC 111 & CSC 111L. Corequisite: CSC 380L.

CSC 380L Web Development Laboratory 1 Credit
Required lab for CSC 380.
Prerequisite: minimum grade of C in CSC 111 and 111L. Corequisite: CSC 380.

CSC 391L Computer Science Junior Seminar 1 Credit
Topic-focused exploration involving students and faculty.
Prerequisite: permission of instructor.

CSC 395 Software Engineering 3 Credits
An examination of a variety of techniques and concepts that have been created to improve the software production process. Includes discussions of software processes, Agile software development, requirements engineering, testing, and software evolution.
Prerequisite: minimum grade of C in CSC 213 & CSC 213L. Corequisite: CSC 395L.

CSC 395L Software Engineering Lab 1 Credit
Required lab for CSC 395.
Prerequisite: minimum grade of C in CSC 213 and 213L. Corequisite: CSC 395.

CSC 400L Special Topics in Computing Laboratory 1 Credit
Current topics of interest to faculty and students. Possible topics: cryptography, advanced scripting languages, networking, etc.
Prerequisite: Minimum grade of C in CSC 281, CSC 281L, MAT 111, and in either MAT 191 or MAT 230. Corequisite: CSC 400L. Restriction: must be junior or senior Computer Science major.

CSC 400L Special Topics in Computing 3 Credits
Current topics of interest to faculty and students. Possible topics: cryptography, advanced scripting languages, networking, etc.
Prerequisite: Minimum grade of C in CSC 281, CSC 281L, MAT 111, and in either MAT 191 or MAT 230. Corequisite: CSC 400L. Restriction: must be junior or senior Computer Science major.

CSC 480 Research Experience 0 Credits
Research project done in conjunction with a faculty advisor.
Offered: every fall & spring.

CSC 481 Research Experience 1 Credit
Research project done in conjunction with a faculty advisor for credit.
Offered: every fall & spring.

CSC 491 Computer Science Senior Seminar 1 Credit
Topic-focused exploration involving students and faculty.
Prerequisite: permission of instructor.

CSC 497 Internship 1-3 Credits
Special projects for local institutions/businesses. Must be related to a specific focused task and involve a significant learning component. Internships require an application and approval by the associate dean. Credit is not given simply for a part-time job. Approved project proposal and results documentation required. Does not count as a CSC elective.
Prerequisite: permission of chair & associate dean.

CSC 498 Independent Project 3 Credits
A directed project course that includes research, design, and implementation of a software system.
Prerequisite: permission of instructor.

CSC 499 Independent Study 1-4 Credits
An in-depth study of a specific computing topic. Independent studies require an application and approval by associate dean.
Prerequisite: junior or senior standing; & permission of instructor, chair, & associate dean.